International application No. PCT/KR2004/003076

## A. CLASSIFICATION OF SUBJECT MATTER

## IPC7 G02B 1/06 G02B 7/04 G03B 3/04

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 G02B 1/00, 1/06, 3/00, 3/14, 7/00, 7/04; G03B 3/00, 3/04, 9/02, 11/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Patents and applications for inventions since 1975

Korean Utility models and applications for Utility models since 1975

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used) eKIPASS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
JP 2001-249261 A (CANON INC.) 14 Sep. 2001 see abstract; paragraphs [0002], [0003], and [0008]-[0037]; Figure 7	1-23	
US 2001-0030364 A1 (KAZUAKI KATOU, KANAGAWA) 18 Oct. 2001 see abstract; paragraph [0062]; Figures 6, 10, and 12	1-23	
JP 2000-077736 A (DENSO CORP.) 14 Mar. 2000 see the whole document	1-23	
JP 2001-257932 A (DENSO CORP.) 21 Sep. 2001 see the whole document	1-23	
_		
	JP 2001-249261 A (CANON INC.) 14 Sep. 2001 see abstract; paragraphs [0002], [0003], and [0008]-[0037]; Figure 7  US 2001-0030364 A1 (KAZUAKI KATOU, KANAGAWA) 18 Oct. 2001 see abstract; paragraph [0062]; Figures 6, 10, and 12  JP 2000-077736 A (DENSO CORP.) 14 Mar. 2000 see the whole document  JP 2001-257932 A (DENSO CORP.) 21 Sep. 2001	

		Further documents are	listed in the	continuation of	of Box C.
--	--	-----------------------	---------------	-----------------	-----------

See patent family annex.

- Special categories of cited documents:
- 'A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

07 MARCH 2005 (07.03.2005)

Date of mailing of the international search report

11 MARCH 2005 (11.03.2005)

Name and mailing address of the ISA/KR



Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

KIM, Sang Hee

Telephone No. 82-42-481-5974



# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/KR2004/003076

	Patent document cited in search report	Publication date	Patent family member(s)	Publication date
ľ				00.44.0000
	JP 2001-249261 A	14.09.2001	US2002176148 A1	28.11.2002
1			US06806988 A	19.10.2004
			US20050007644 A1	13.01.2005
	US 2001-0030364 A1	18.10.2001	KR1020010085577 A	07.09.2001
			EP01128534 A2	29.08.2001
			EP01128534 A3	24.09.2003
			JP2001237374 A2	31.08.2001
			JP3372923 B2	04.02.2003
			TW529157 B	21.04.2003
			US6531912 B	11.03.2003
	JP 2000-077736 A	14.03.2000	NONE	
	JP 2001-257932 A	21.09.2001	NONE	